

02-12-01

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02/08/01



U.S. PATENT APPLICATION  
ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Case Docket No.: 50N3698.01/1564



Sir:

Transmitted herewith for filing is the patent application of  
Applicant(s): Clay H. Fisher, Michael W. Blasgen, and Eric D. Edwards  
Title: System And Method For Creating Still Images  
By Utilizing A Video Camera Device

Enclosed are:

- ☒ 28 pages of specification, claims and abstract.
- ☒ 8 sheets of ☐ informal ☒ formal drawing(s).
- ☐ A declaration and power of attorney.
- ☐ An assignment transmittal.
- ☒ An assignment of the invention to: Sony Corporation and Sony Electronics, Inc.  
Please record the assignment and return to the undersigned.
- ☐ A certified copy of a \_\_\_\_\_ application.
- ☐ An associate power of attorney.
- ☐ A verified statement to establish small entity status under 37 CFR §§ 1.9 and 1.27.
- ☒ PTO Form-1449 and copies of cited art.

The filing fee has been calculated as shown below:

For	(Col. 1) No. Filed	(Col. 2) No. Extra	Small Entity		or	Other Than a Small Entity	
			Rate	Fee		Rate	Fee
Basic Fee				\$385.00			\$710.00
Total Claims	42 - 20 = *	22	x \$11 =	\$		x \$18 =	\$396.00
Indep. Claims	4 - 3 = *	1	x \$40 =	\$	or	x \$80 =	\$80.00
Multiple Dependent Claims Present <input type="checkbox"/>			+ \$130 =	\$		+ \$260 =	\$
*If the difference in column 1 is less than zero, enter 0 in column 2			Total	\$	or	Total	\$1186.00

☐ Please charge my Deposit Account No. 50-1443 the amount of \$ \_\_\_\_\_. A duplicate copy of this sheet is enclosed.


☒ A check in the amount of \$ 1186.00 to cover the filing fee ☐ and recording of assignment is enclosed.

☒ The Commissioner is hereby authorized to charge payment of the following fees during the pendency of this application or credit any overpayment to Deposit Account No. 50-1443. A duplicate copy of this sheet is enclosed.

- ☒ Any additional filing fees required under 37 CFR § 1.16.
- ☒ Any patent application processing fees under 37 CFR § 1.17.
- ☐ The issue fee set in 37 CFR § 1.18 at or before mailing of the Notice of Allowance, pursuant to 37 CFR § 1.311(b).

Respectfully submitted,

Dated: Feb. 6, 2001

  
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IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Fisher et al.  
SERIAL NO.: Unknown  
FILING DATE: On Even Date Herewith  
TITLE: System And Method For Creating Still Images  
By Utilizing A Video Camera Device  
EXAMINER: Unknown  
GROUP ART UNIT: Unknown  
ATTY.DKT.NO.: 50N3698.01/1564



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BOX PATENT APPLICATION  
ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

**CERTIFICATE OF EXPRESS MAIL**

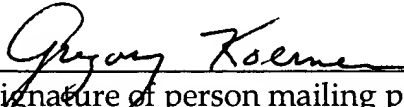
SIR:

"Express Mail" mailing label number: EK890202368US

Date of Deposit: Feb. 8, 2001

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

Deposited by: Gregory J. Koerner

  
(Signature of person mailing paper or fee)

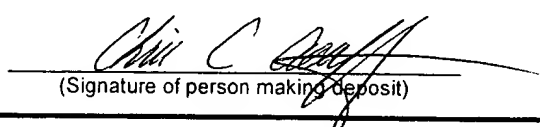
3-8-00

AIPROV

## CERTIFICATE OF EXPRESS MAILING

Express Mail<sup>®</sup> mailing label number EL488572094US  
Date of Deposit MARCH 6, 2000

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

  
(Signature of person making deposit)PROVISIONAL APPLICATION FOR  
PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (b)(2).

Docket Number 50N3698

## INVENTORS/APPLICANTS

LAST NAME	FIRST NAME	MIDDLE INITIAL	RESIDENCE (City and Either State or Foreign Country)
FISHER	CLAY	H.	BELMONT, CA
BLASGEN	MICHAEL	W.	LOS GATOS, CA
EDWARDS	ERIC	D.	SAN FRANCISCO, CA

TITLE OF THE INVENTION (280 characters max)

## VIDEO STREAM STITCHING

## ENCLOSED APPLICATION PARTS (check all that apply)

<input checked="" type="checkbox"/> Specification	Number of Pages <u>2</u>	<input type="checkbox"/> Small Entity Statement
<input type="checkbox"/> Drawing(s)	Number of sheets <u>    </u>	<input type="checkbox"/> Other (specify) <u>    </u>

## METHOD OF PAYMENT (check one)

A check or money order is enclosed to cover the Provisional filing fees

☒ The Commissioner is hereby authorized to charge  
filing fees and credit Deposit Account Number: 19-3195PROVISIONAL  
FILING FEE  
AMOUNT \$ 150.00

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No☐ Yes, the name of the U.S. Government agency and the Government contract number are:     

## DIRECT CORRESPONDENCE TO:

Intellectual Property Department

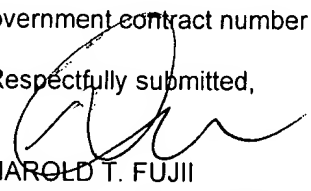
Sony Electronics Inc

1 Sony Drive - MD T1-1

Park Ridge, NJ 07656-8003

Phone 201/930-7951 Fax 201/930-6854

Respectfully submitted,

  
HAROLD T. FUJIIRegistration No. 38,458Date MARCH 6, 2000

## PROVISIONAL APPLICATION FOR PATENT FILING ONLY

50N3698

PROVISIONAL APPLICATION

VIDEO STREAM STITCHING

DETAILED DESCRIPTION OF THE INVENTION

(See attached page)

50167337-030600

## Video stream stitching

Video stream stitching - Method and apparatus to create a still image from a video stream.

### **Problem 1:**

There is no way for a user to construct a still image from a video stream if the camera is moving.

### **Problem 2:**

There is no way to use a camera as a document scanner for random sized documents.

### **Problem 3:**

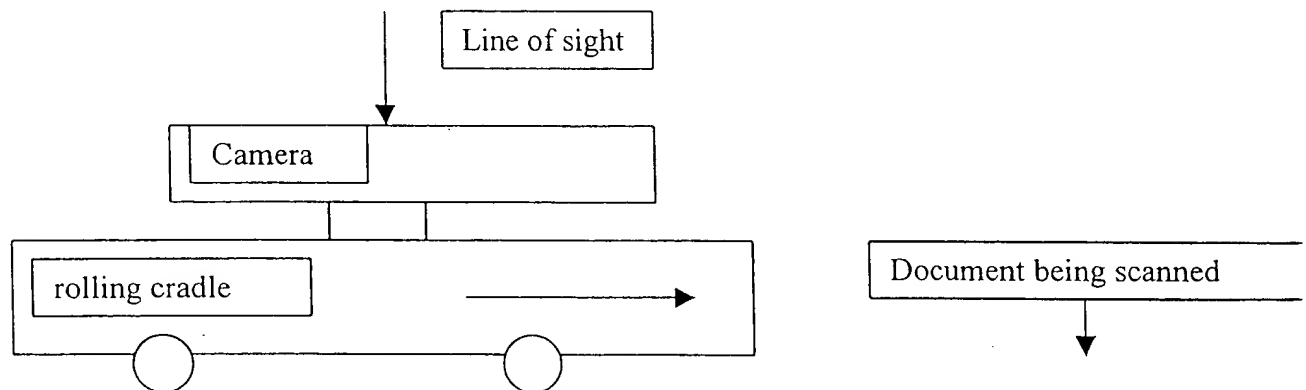
Stitching systems based on still images require some sort of indexing method to capture still images at proper intervals.

The user captures a video of a scene while remaining stationary and moving the camera.

A user places the camera in a rolling cradle that is moved over the surface of a document while in video capture mode. The invention can create a still image of the entire document from the resultant video data.

alternatively the user can create the video clip and then use a separate software application to convert to a still image. alternatively the video can be uploaded to a network or an online service for the conversion.

The cradle may store position and rotation speed data (from the rolling of the wheels) for use in constructing the still image.



### **Key advantage 1**

The user can scan documents of any size with a simple technique.

### **Key advantage 2**

A single cradle size can be used for any size document.

### **Key advantage 3**

No indexing method is required to capture images at proper intervals to create a large still image.